

Figure 1

Telecommunications
Signal Containing
Information About
Incoming Speech from
Called/Calling Party

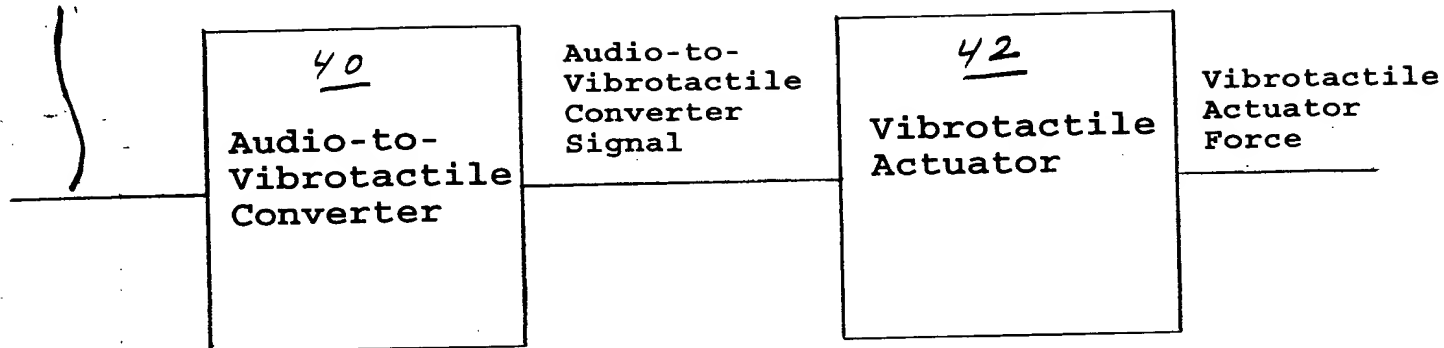


Figure 2: Audio-Modulated Vibrotactile Module

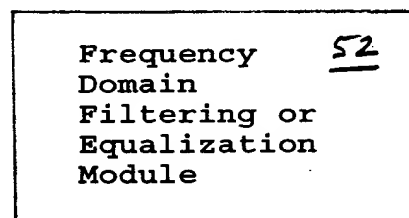


Figure 4

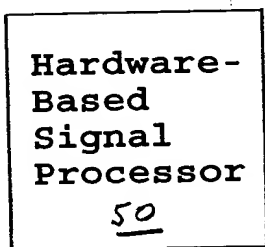


Figure 3

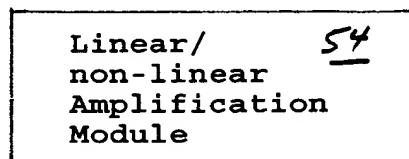


Figure 5

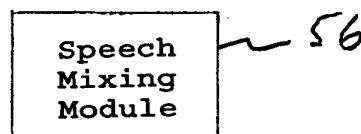


Figure 6

Software-
Based
Signal
Processor

60

Figure 7

Speech
Encoding
Algorithm
Module

62

Figure 8

Electro-
Mechanical
Actuator

70

Figure 9

Acoustic
Actuator

80

Figure 10

FIG. 11

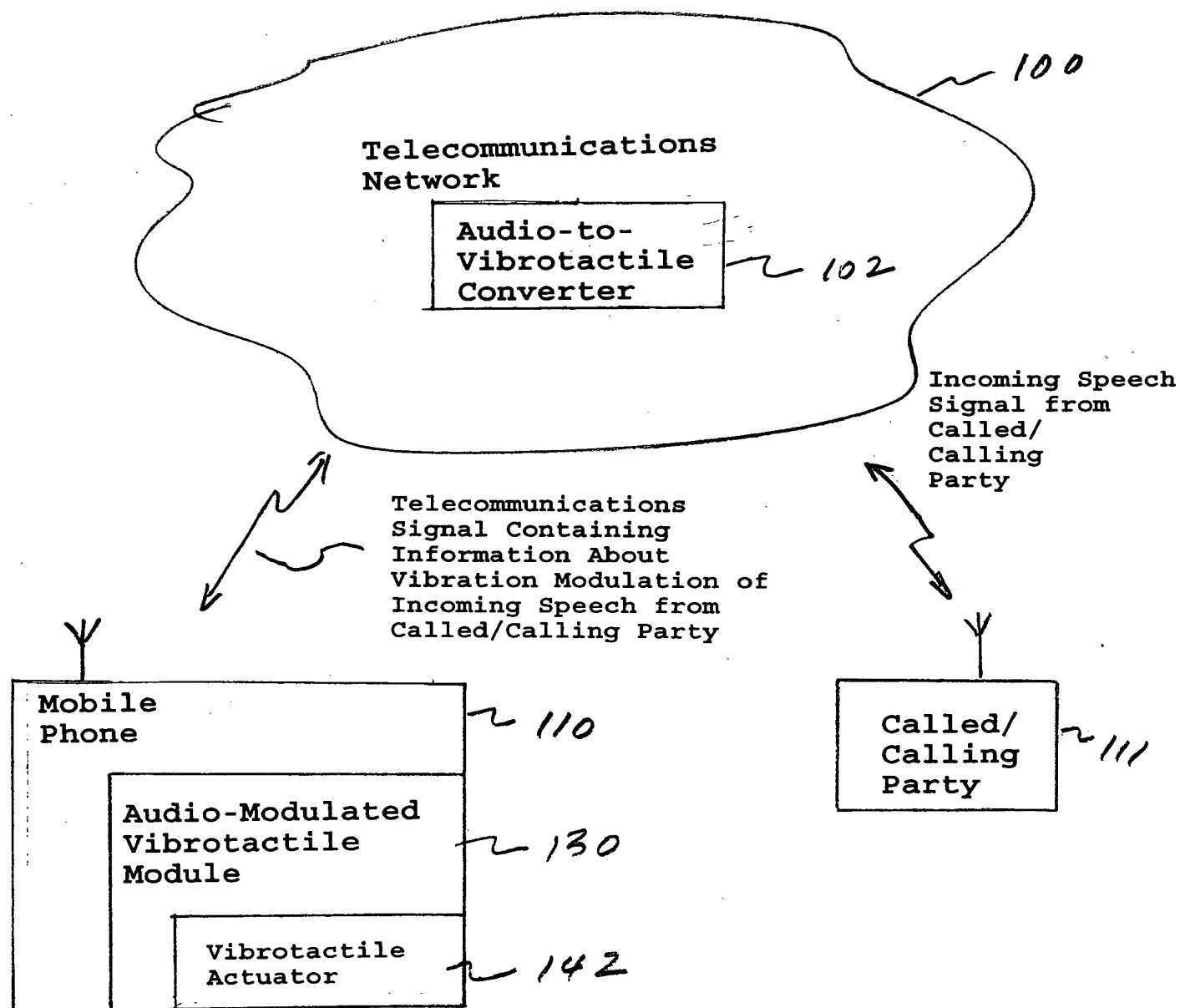


Figure 11

Figure 12

